

FCC ID: 2ABYN140

Portable device

According to §15.247(e)(i) and §1.1307(b)(1), systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines.

According to KDB447498 D01 General RF Exposure Guidance V06

The 1-g SAR and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances \leq 50 mm are determined by:

$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0 \text{ for 1-g SAR and } \leq 7.5 \text{ for 10-g extremity SAR, where:}$

- $f(\text{GHz})$ is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation
- The result is rounded to one decimal place for comparison

When the minimum test separation distance is $<$ 5 mm, a distance of 5 mm is applied to determine SAR test exclusion.

Operation Frequency: 2412.999634-2464.499756MHz

Transmit power:

Frequency (MHz)	EIRP power (dBuV/m)	EIRP power (dBm)	conducted power(dBm)
2412.999634	96.30	1.1	1.47
2437.999878	96.38	1.18	1.55
2464.499756	96.21	1.01	1.38

$$\text{EIRP} = E - 104.8 + 20 \log(D)$$

EIRP=conducted power + antenna gain

antenna gain: -0.37dBi;

Modulation	Channel Freq. (GHz)	Conducted power (dBm)	Conducted power (mW)	Tune-up power (dBm)	Max tune-up power (dBm)	Max tune-up power (mW)	Distance (mm)	Result calculation	SAR Exclusion threshold	SAR test exclusion
MSK	2.412999634	1.470	1.403	1.5±2	3.500	2.239	<5	0.6955	3.00	YES
MSK	2.437999878	1.550	1.429	1.5±2	3.500	2.239	<5	0.6991	3.00	YES
MSK	2.464499756	1.380	1.374	1.5±2	3.500	2.239	<5	0.7029	3.00	YES

Conclusion:

For the max result : $0.7029 \leq 3.0$ for 1g SAR, SAR is not required.



Signature:

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